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### AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A multilayer semiconductor device assembly jig for minimizing the displacement of a plurality of semiconductor modules disposed within the assembly jig during a manufacturing process, comprising:

a lateral position restriction mechanism for positioning and aligning a plurality of stacked semiconductor modules on a solid base member with their respective lateral positions mutually restricted, the lateral position restriction mechanism formed at a width slightly more than but substantially equal to a width of a rigid portion of said plurality of semiconductor modules so as to rigidly restrict the deformation of said semiconductor modules;

a removable height restriction mechanism disposed opposite said base member and which interfaces with said lateral position restriction mechanism for restricting an entire height of said semiconductor modules layered on said base member and which is removed prior to mounting the jig onto a mother substrate;

a mother substrate alignment mechanism for providing alignment with reference to a the mother substrate on which the jig will be mounted; and

further wherein each of the plurality of semiconductor modules is comprised of one or more semiconductor chips secured to a printed wiring board that has electrical connections on

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a top and bottom surface thereof and wherein adjacent semiconductor modules are secured to one another by solder connections between respective top and bottom surfaces thereof.

2. (Currently Amended) The multilayer semiconductor device assembly jig according to

claim 1, wherein said lateral position restriction mechanism comprises a box-substantially

rectangular-shaped member formed from two pairs of opposing side walls formed in a

rectangular shape and which is positioned on said base member and which has a storage

space for storing said semiconductor modules in a layered state,

wherein an inner wall surface of said storage space constitutes said lateral position

restriction mechanism.

3. (Currently Amended) The multilayer semiconductor device assembly jig according to

claim 2, wherein said alignment mechanism comprises a plurality of positioning pins and

positioning holes for receiving the positioning pins which are correspondingly formed in said

box-rectangular-shaped member and said mother substrate.

4. (Currently Amended) The multilayer semiconductor device assembly jig according to

claim 1, wherein said position restriction mechanism further comprises a plurality of

positioning pins secured in said base member and which are used for securing at least three

different portions of an outer periphery of said semiconductor modules and at least two

opposing sides of said semiconductor modules.

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- 5. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 1, wherein said position restriction mechanism further comprises a plurality of positioning pins secured in said base member and which pierce through positioning holes formed in said semiconductor modules.
- 6. (Currently Amended) The multilayer semiconductor device assembly jig according to claim 5, wherein said positioning pins are aligned in a manner so as to also pierce through a positioning hole formed in said mother substrate when the jig is mounted on the mother substrate.
- 7. (Currently Amended) The multilayer semiconductor device assembly jig according to claim 1, wherein said height restriction mechanism comprises:

a cover member secured over <u>or on</u> said <del>semiconductor modules</del> <u>lateral position</u> <u>restriction mechanism</u>.

#### 8. - 10. (Canceled)

11. (Currently Amended) A multilayer semiconductor device assembly jig for minimizing the displacement of a plurality of semiconductor modules disposed within the assembly jig during a manufacturing process, comprising:

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a lateral position restriction mechanism for positioning and aligning a plurality of stacked semiconductor modules on a solid base member with their respective lateral positions mutually restricted, the lateral position restriction mechanism comprised of two opposed side walls having a single stack of the semiconductor modules therebetween, the sidewalls being formed at a width slightly more than but substantially equal to a width of a rigid portion of

said plurality of semiconductor modules so as to rigidly restrict the deformation of said

semiconductor modules;

a removable height restriction mechanism disposed opposite said base member and which interfaces with said lateral position restriction mechanism for restricting an entire height of said semiconductor modules layered on said base member, said height restriction mechanism being located directly above the stacked semiconductor modules and wherein said height restriction mechanism is removed prior to mounting the jig on a mother substrate;

a mother substrate alignment mechanism for providing alignment with reference to a the mother substrate on which the jig will be mounted;

and further wherein each of the plurality of semiconductor modules is comprised of one or more semiconductor chips secured to a printed wiring board that has electrical connections on a top and bottom surface thereof and wherein adjacent semiconductor modules are secured to one another by solder connections between respective top and bottom surfaces thereof.

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12. (Currently Amended) The multilayer semiconductor device assembly jig of claim 11, wherein the alignment mechanism is comprised of a plurality of vertical pins secured in said base member arranged adjacent and in contact with sides of the stacked semiconductor modules.

- 13. (Currently Amended) The multilayer semiconductor device assembly jig of claim 11, wherein the alignment mechanism is <u>further</u> comprised of a plurality of vertical pins that extend <u>pierce</u> through the stacked semiconductor modules.
- 14. (Currently Amended) An assembly jig for minimizing the displacement of a plurality of semiconductor modules disposed within the assembly jig during a manufacturing process comprising:

two pairs of substantially parallel opposed side walls formed on a solid base member, the sidewalls being formed at a width slightly more than but substantially equal to a width of a rigid portion of said plurality of semiconductor modules so as to rigidly restrict the deformation of said semiconductor modules;

a removable cover member located opposite said base member and which interfaces with the side walls;

an internal void defined by said two pairs of opposed side walls providing a reception area for a plurality of semiconductor modules stacked and surrounded by the side walls such that, when disposed within the void, the modules are aligned and their lateral motion is

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prevented by the side walls, <u>and</u> wherein the semiconductor modules are comprised of at least one chip and one wiring board;

and further wherein the removable cover member is positioned such that it prevents vertical displacement of an uppermost semiconductor module.

15. (Currently Amended) The assembly jig of claim 15 wherein further comprising mother substrate alignment pins that extend through portions of the cover member and the side walls.

16. - 19. (Canceled)

20. (Previously Presented) The multilayer semiconductor device assembly jig according to claim 1, wherein said mother substrate alignment mechanism is formed in said lateral position restriction mechanism.

21. (Cancelled)

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